朝陽科技大學 093學年度第2學期教學大綱
Engineering Mathematics(II) 工程數學(二)

當期課號	1024	**Course Number**	1024
授課教師	江支弘	**Instructor**	CHIANG,CHIH HUNG
中文課名	工程數學(二)	**Course Name**	Engineering Mathematics(II)
開課單位	營建工程系(四日)二A	**Department**	
修習別	選修	**Required/Elective**	Elective
學分數	3	**Credits**	3
課程目標	本課程爲選修2學分之課程，爲工程統計(一)之延伸課程。課程重點在於使學生了解如何蒐集資訊，並應用統計與機率解析資訊，並訓練學生進行團隊合作、簡報與撰寫報告。講授主要內容包括統計估計、假設檢定、變異數分析與實驗設計等。	**Objectives**	This course focuses on statistical inferences. Main topics include statistical estimates, hypothesis testing, analysis of variance, and introductory simulations. The course enables the students to familiarize with the concept of inferential statistics and related applications on engineering problems. Students also benefit from interactive learning processes, within individual group, that lead to a term project and oral presentation.
教材	Advanced Engineering Mathematics 8th ed. by Kreyszig (參考*Advanced Engineering Mathematics 4th ed. by ONeil *Advanced Engineering Mathematics by Zill and Cullen)	**Teaching Materials**	
成績評量方式	midterm 30%; quiz 30%; final 35%; attitude 5%	**Grading**	midterm 30%; quiz 30%; final 35%; attitude 5%
教師網頁			
教學內容	介紹工程分析之進階主題，主要範圍包括線性代數、聯立方程組與矩陣法以及向量微積分。強調對各種工程實際問題建立數學模式以及解析。	**Syllabus**	matrices; system of linear equations; vectors and vector intergral

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